

SOV/147-58-3-16/18

On the Selection of Pressure of an Elastic Die for Stamping of Components from Sheets

holder Eq.17) follows, in which q^* is the pressure on the flange from the elastic die (in the case of rubber dies it may be taken as $q^* = q - (0.15 - 0.25) \text{kg/mm}^2$). From Eq.13, q_{KP} may be obtained by the method of successive approximations; for practical cases two approximations suffice. Fig.3 and Eq.20 - 24 give the relation $q = f(\bar{h}_1)$ where \bar{h}_1 is the current depth of drawn portion; R_p = radius of the punch; r_n - radius of the shoulder of the punch. Equating the area of the blank up to the place where deformation begins and the area of the current drawn portion Eq.25 is obtained. The ratio f is obtained from Eq.27, 28 and 29 (in accordance with Ref.1) and the nomogram of Fig.4. Finally the author draws the following conclusions:

- 1) on the graph in Fig.3 the segment DD_1 has no practical meaning and should be replaced by the segment DD_2 ;
- 2) in an ideal case (perfect symmetry of the material and the apparatus) there is no instability of the flange when acted on by a blank holder; however the unisotropy of

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the material results in non-uniform deformation and wrinkling will occur;

3) point G on the curve $q = \varphi(\bar{n}_1)$ represents q_c , below which the surface of the conical portion becomes unstable;

4) if the drawing requires a pressure less than or equal to q_c , then it should proceed along the line ABC; for higher values of q_c it should proceed along the path ABGDD₂;

5) within the area of allowed pressures (shadowed area in Fig.3) the process of drawing may be carried along any path without formation of wrinkles. Fig.6 shows a graph of $q = \varphi(\bar{n}_1)$ for cup

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drawing from D16M with variable ρ , and such that
with $\theta = \pi/4$

$m = 0.457$; $p = 18.3$; $m_d = 0.73$; $m_n = 0.542$

There are 6 figures and 3 Soviet references

ASSOCIATION: Moskovskiy Aviatsionnyy Institut, Kafedra Proizvodstva
Samoletov (Moscow Institute of Aeronautics, Chair of
Aircraft Production)

SUBMITTED: 10th February 1958.

Card 6/6

BIRYUKOV, N.M., starshiy prepodavatel'

Critical stress of a compressed rigidly-supported plate subjected to the action of uniform lateral loads. Izv. vys. ucheb. zav.; mashinostr. no.11/12:89-92 '58. (MIRA 13:3)

1. Moskovskiy aviatsionnyy institut.
(Elastic plates and shells)

BIRYUKOV, N.M., kand.tekhn.nauk

Pressing stresses exerted in stamping and drawing parts of sheet metal. Izv.vys.ucheb.zav.; mashinostr. no.1:83-94 '60.
(MIRA 14:5)

1. Moskovskiy aviatsionnyy institut.
(Sheet-metal work)

AM1007940

BOOK EXPLOITATION

S/

Biryukov, Nikolay Mikhaylovich; Chudarev, Pavel Fedorovich (Docent)

Lectures on the course "Theoretical fundamentals of the manufacture and processes of aircraft parts" for students in evening classes (Lektsii po kursu "Teoreticheskiye osnovy* tekhnologii i protsessy* izgotovleniya detaley samoletov dlya studentov vechernego otdeleniya), Moscow, Oborongiz, 1963, 175 p. illus., biblio. Errata slip inserted. 1,200 copies printed. At head of title: Ministerstvo Vysshogo i Srednego Spetsial'nogo obrazovaniya RSFSR. Moskovskiy ordena Lenina Aviatsionnyy institut im. Sergo Ordzhonikidze.

TOPIC TAGS: aircraft construction, industrial engineering, quality control, labor productivity, production cost, corrosion, aluminum alloys, magnesium alloys, sheet metal, extrusion, machining, forging, casting

PURPOSE AND COVERAGE: The author has been reading these lectures in the course "Theoretical Bases of the Technology and Processes of Aircraft Part Fabrication" at the Moscow Aviation Institute since the 1960 school year. There are 36 lecture hours. Considering the time limit and the large amount of information in the discipline, the authors have condensed the lectures and given the basic concepts and theoretical premises on the technological processes and their design, on the Card 1/3

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equipment and accessories used in fabrication of aircraft parts. The lecture course consists of two sections with five topics each. In the first section, "Theoretical Basis of Technology", are given the features of aircraft construction, the technological methods of improving the quality of the parts and raising the productivity of labor, and reducing production cost; a general methodology of designing the technological processes is given. The second section deals with the processes of making aircraft parts from sheet metal, extrusions, thin-walled tubes, rolled, stamped, and cast metal. The fundamentals of designing special accessories are also given. The experience of docents at MAI Candidate of Technical Sciences I. T. Belyakov, I. A. Zernov, and L. A. Konorov was used in preparing the lectures for publication.

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SUB CODE: IE, MA, ML

SUBMITTED: 22 Mar 63

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OTHER:000

DATE ACQ: 15 Jan 64

Card 3/3

BIRYUKOV, N.N.

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.;
 SNIYANINOV, G.T., professor; BOSHKO, L.V.; ALISOV, B.P.; ~~BIRYUKOV,~~
 N.N.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; EYGENSON, M.S.,
 professor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.N.; LEBEDEV,
 A.N.; SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, V.S.; USMA-
 NOV, R.F.; CHUBUKOV, L.A.; TROTSENKO, S.Ye.; VANGENGEYM, G.Ya.;
 SOKOLOV, I.F.; STYRO, B.I.; TEMNIKOVA, N.S.; ISAYEV, E.A.; DMITRIYEV,
 A.A.; MALYUGIN, Ye.A.; LIIDEMAA, Ye.K.; SAPOZHNIKOVA, S.A.; RAKIPO-
 VA, L.R.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORLOVA, V.V.; RU-
 BINSHTEYN, Ye.S., professor; MILEVSKIY, V.Yu.; SHCHERBAKOVA, Ye.Ya.;
 BOCHKOV, A.P.; ANAPOL'SKAYA, L.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.;
 RUDNEVA, A.V.; RUDENKO, A.I.; ZOLOTAREV, M.A.; NERSESYAN, A.G.;
 MIKHAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVIATKOVA, A.M.;
 ZAVARINA, M.V.; SHMETER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current
 state climatological research and methods of developing it]. Inform.
 sbor.GUGMS no.3/4:26-154 '54. (MLRA 8:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya
 geofizicheskaya observatoriya im. A.I.Voeykova (for Predtechenskiy,
 Lebedev, Yanishavskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubin-
 shteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayeva, Rudneva, Gavrilov,
 Zavarina). 3. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologiche-
 skiy institut (for Buchinskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-154 '54. (Card 2) (MIRA 8:3)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko).
5. Bioklimaticheskaya stantsiya Kislovodsk (for Boshno).
6. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Alisov).
7. Ministerstvo putey soobshcheniya SSSR (for Biryukov).
8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev).
9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (for Eygenson).
10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov).
11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov).
12. Tsentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Sokolov, Zolotarev).
13. Gosudarstvennyy okeanograficheskiy institut (for Samoylenko).
14. Tsentral'nyy institut prognozov (for Usmanov, Sapozhnikova).
15. Institut geografii Akademii nauk SSSR i Tsentral'nyy institut kurortologii (for Chubukov).
16. Nauchno-issledovatel'skiy institut imeni Sechenova, Yalta (for Trotsenko).
17. Arkticheskiy nauchno-issledovatel'skiy institut (for Vangengeym).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it].
Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 3) (MLRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Sokolov).
 19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro).
 20. Rostovskoe upravlenie gidrometsluzhby (for Temnikova).
 21. Morskoy gidrofizicheskiy Institut Akademii nauk SSSR (for Dmitriyev).
 22. Vsesoyuznyy institut rasteniyevodstva (for Malyugin).
 23. Akademiya nauk Estonskoy SSR (for Liedemaa).
 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan).
 25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy).
- (Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 4) (MLRA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometsluzhby Armyanskoy SSR (for Nersesyan). 29. Leningradskoye upravleniye gidrometsluzhby (for Mikhaylov, Devyatkova). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. Tsentral'naya aerologicheskaya observatoriya (for Shmeter). (Climatology)

KUPCHINOV, Ivan Iosifovich, dotsent; ~~LEBEDEV~~, Sergey Malakhovich;
PROTSKO, Dmitriy Vasil'yevich, starshiy prepodavatel';
PETRUKOVICH, Aleksey Alekseyevich, zasluzhennyy deyatel' nauki
i tekhniki UzSSR; ZUBRITSKIY, I.V., prof., retsenzent; CHERNYSHEV,
M.A., retsenzent; ~~BIRYUKOV, N.N.~~, dotsent, retsenzent; SOLOMONOV,
A.A., dotsent, retsenzent

[Geodesy; textbook for students at higher railroad transportation
schools] Geodeziya; uchebnoe posobie dlia studentov vuzov
zheleznodorozhnogo transporta. Pod obshchei red. A.A.Petrukovicha.
Moskva, Vses.zaochnyi in-t inzhenerov zhel.-dor.transp., 1959.
365 p. (MIRA 14:1)

1. Zaveduyushchiy kafedroy geodezii Belorusskogo instituta inzhe-
nerov zheleznodorozhnogo transporta (for Lebedev). 2. Zaveduyu-
shchiy kafedroy "Put' i putevoye khozyaystvo" Belorusskogo insti-
tuta inzhenerov zheleznodorozhnogo transporta (for Petrukovich).
3. Zaveduyushchiy kafedroy "Put' i putevoye khozyaystvo" Vse-
soyuznogo zaochnogo instituta inzhenerov zheleznodorozhnogo
transporta (for Chernyshev).
(Surveying)

BIRYUKOV, N.N., kand. tekhn. nauk, dotsent

Taking the geophysical factor into account in runoff
calculations. Uch. zap. VZIIIT no. 13:26-35 '64.

(MIRA 19:1)

BIRYUKOV, N.O.

Characteristics of the automatic control of the cable drag of
electric tractors. Avtom. i telem. 15 no.3:223-236 My-Je '54.
(MLRA 7:11)
(Automatic control) (Electric cables) (Tractors)

112-57-7-14613D

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 124 (USSR)

AUTHOR: Biryukov, N. O.

TITLE: Automatic Tension Regulation on an Electric-Tractor Cable
(Avtomaticheskoye regulirovaniye natyazheniya kabelya elektrotraktora)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of
Candidate of Technical Sciences, presented to In-t avtomatika i telemekhan.
AN SSSR (Institute of Automation and Telemechanics, AS USSR), Moscow, 1956.

ASSOCIATION: In-t Avtomatiki i telemekhan. AN SSSR (Institute of Automation and
Telemechanics, AS USSR)

Card 1/1

BIRYUKOV, N.O.

First congress of the International Federation of Automatic
Control. Avtom. i telem. 21 no.6:934-937 Je '60.

(MIRA 13:7)

(Automatic control—Congresses)

~~BIRYUKOV, N.O.~~; ZHURKINA, E.G.; KRUG, Ye.K.; KULEMIN, V.I.;
PCHELINTSEVA, M.D.; KHRAMOY, A.V.; SHORINA, A.A.;
SEMENOVA, A.A., red.isd-va; SHEVCHENKO, G.N., tekhn.red.

[Russian-English-German-French dictionary of terms on
automatic control] Russko-anglo-nemetsko-frantsuzskii slovar'
terminov po avtomaticheskomu upravleniiu. Pod red. A.V.
Khramogo. Moskva, Isd-vo AN SSSR, 1963. 229 p.

(MIRA 16:9)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
(Automatic control--Dictionaries)
(Russian language--Dictionaries--Polyglot)

BIRYUKOV, N.P.

Using results of calculating the rate of growth of Atlantic and Scandinavian herrings for distinguishing schools and for studying migration routes. Vop.ikht. no.6:47-54 '56. (MLRA 9:8)

1. Baltiyskiy filial Vsesoyuznogo nauchno-issledovatel'skego instituta morskogo rybnogo khozyaystva i okeanografii -- VNIRO
(Herring)

BIRYUKOV, N.P., kandidat biologicheskikh nauk.

Rare specimen of the Baltic sturgeon. Priroda 45 no.11:113 N
'56. (MLRA 9:11)

1. Baltiyskiy nauchno-issledovatel'skiy institut rybnogo kho-
zyaystva i okeanografii, Kaliningrad.
(Baltic Sea--Sturgeons)

BIRYUKOV, N.P.

Distribution and state of the herring stock of the North Sea in
1957. Trudy sov. Ikht. kom.no.10:95-97 '60. (MIRA 13:10)

1. Baltiyskiy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii-(BaltNIRO)
(North Sea--Herring)

BIRYUKOV, N.P.; TOKAREVA, G.I.

Some results of observations on the spawning and quantitative
estimation of the young of codfish in the Baltic Sea. Trudy
BaltNIRO no.7:109-111 '61. (MIRA 15:2)
(Baltic Sea--Codfish)

BIRYUKOV, N.P.; PETROV, G.P.

Use of echo sounding in fishery research. Vop.ikht. 1 no.2:321-
332 '61. (MIRA 14:6)

1. Baltiyskiy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii (BaltNIRO, Riga).
(Sonar in fishing)

BIRYUKOV, N.S.

Regularity in the composition and distribution of ground waters
in the Kuma - Volga part of the Caspian Depression. Nauch. dokl.
vys. shkoly; geol.-geog. nauki no.3:173-177 '58. (MIRA 12:1)

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra
grunetvedeniya.

(Caspian Depression--Water, Underground)

(Volga Valley--Water, Underground)

(Kuma Valley--Water, Underground)

Biryukov, N.S.

3(4,7) **KNOWLEDGE I BOOK REPRODUCTION** 120V/60HZ

Vsesoyuznyy gidrologicheskiy sbornik, 3rd, Leningrad, 1957.
Trudy III Sborniya Sborniki (Transactions of the 3rd All-Union Hydrological Conference, v. 3: Hydrophysics Section) Leningrad, Gidrometizdat, 1959. 470 p. Errata slip inserted. 2,000 copies printed.

Sponsoring agency: Otkrytye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.
Resp. Ed.: V.A. Urvayev, Ed.: V.S. Protopopov, Tech. Ed.: N.I. Braynina.

PURPOSE: This work is intended for meteorologists, hydrologists, and hydrophysicists, particularly those engaged in the study of snow and ice and evaporation processes.

COVERAGE: This book contains papers on hydrophysics which were presented and discussed at the Third All-Union Hydrological Conference in Leningrad, October 1957. The conference published 10 volumes on various aspects of hydrology of which this is number 3. The editorial board in charge of the series includes: V.A. Urvayev (Chairman), O. I. Kaban, Ye.V. Bliznyak (deceased), O.M. Korovak, M.A. Velikanov, I. K. Ivanov, A.P. Domantskiy, O.F. Kalinin, B.M. Krizitskiy, B.I. Rudnik, I. V. Popov, A.K. Proskurnikov, M.P. Menkel, S.P. Orlov, A.I. Chebotarev, and S.K. Chernikov. This volume is divided into 2 sections; the first contains reports from the subsection for the study of evaporation processes and the second contains reports from the snow and ice subsection. References accompany each article.

Krylova, T.Y. [Candidate of Physical and Mathematical Sciences, 000 Leningrad] Radiation Balance of Water Bodies 42

Vorontsov, P.A. [Candidate of Geographical Sciences, 000 Leningrad] Certain Characteristics of Meteorological Conditions Over the Sea 43

Izobovlev, N.I. [Junior Scientific Worker, 000 Leningrad] The Effect of Water Surfaces on the Air Transformation 59

Dmitriyev, M.G. [Candidate of Geographical Sciences, 1957] Moscow Infiltration Into Deep Beds in Relation to the Determination of Evaporation 64

Konstantinov, A.P. and V.P. Pukharenko [Candidates of Physical and Mathematical Sciences, 001 Leningrad] Basic Trends in the Study of Evaporation From a Ground Surface 72

Volobuyev, Y.R. [Corresponding Member of the Azerbaijan Academy of Sciences, Doctor of Agricultural Sciences] Relation Between Soils and the Hydrological Conditions 84

Romanov, V.V. [Candidate of Technical Sciences, 001 Leningrad] Determining Evaporation by the Heat Balance Method Using the Data of Standard Meteorological Observations 84

Rudin, M.P. [Candidate of Geographical Sciences, 000 Leningrad] The Gradient Method for Determining Evaporation From the Ground and Its Application Within the Station Network 92

Konstantinov, A.R. [Candidate of Physical and Mathematical Sciences, 001 Leningrad] Computing Evaporation From the Ground According to Data Supplied by Meteorological Stations 103

Struzar, L.R. [Candidate of Physical and Mathematical Sciences, 001 Leningrad] Estimating the Error in the Existing Methods for Determining Evaporation From the Ground 110

Biryukov, N.S. [Candidate of Geological and Mineralogical Sciences, Institute of Forestry, Uspenskiy] Computing Total Evaporation of the Taiga Zone as Exemplified by the Reserve Range of the Kachkovskiy Forest District in the Volgodarskiy Oblast 119/A

BIRYUKOV, N.S.; MOLCHANOV, A.M., prof., otv.red.; IVANOV, V.V., red.
isd-va; ANTSELOVICH, M.Ye., red.isd-va; DOROKHINA, I.N.,
tekhn.red.

[Method of studying the zone of aeration and ground waters
in hydrological forestry research] Metodika izucheniia zony
seratsii i gruntovykh vod pri lesogidrologicheskikh issledo-
vaniakh. Moskva, Isd-vo Akad.nauk SSSR, 1959. 65 p.

(MIRA 13:1)

(Forest influences)

(Water, Underground)

BIRYUKOV, O.M.

Treatment of tendon injuries of the fingers and hand. Ortop., trav.
i protes. 20 no.10:30-34 0 '59. (MIRA 13:2)

1. Iz kafedry voyenno-morskoy khirurgii (nach. - prof. A.A. Bocharov)
Voyenno-meditsinskey akademii im. S.M. Kirova.
(HAND musc. & tendons)

REMIZOV, A.N.; BIRYUKOV, O.P.

Dependence of magnetic viscosity on the thermal treatment of
materials. Izv.vys.ucheb.zav.; fiz. no.2:171-172 '61. (MIRA 14:7)
(Metals, Effect of temperature on) (Magnetic materials)

FEDOROVA, Z.M.; BIRYUKOV, O.V.

Efficient type of hoisting machine for deep mines. Sbor.nauch.
trud. KHGI 5:103-114 '58. (MIRA 14:4)
(Mine hoisting)
(Hoisting machinery)

БИДУКОВ, Г.

Trade-Unions

Activist unit of the trade-union helps improve working conditions. V pom.profaktivu
13, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

BIHYUKOV, P., starshiy tekhnicheskiy inspektor.

Improve work in safeguarding labor. V pom.profaktivu 14 no.13:14-16 J1
'53. (MLRA 6:6)

1. Vsesoyuznyy tsentral'nyy sovet professional'nykh soyuzov.
2. Dnepro-
petrovskiy oblastnyy sovet profsoyuzov.
(Industrial safety) (Industrial hygiene)

BIRYUKOV, P.

With the help of active members. Sov. profsoiuzy 4 no.9:43-45 S'56.
(MIRA 9:10)

1. Starshiy tekhnicheskiy inspektro Otdela okhrany truda Vsesoyuznogo
TSentral'nogo Soveta professional'nykh soyuzov pri Dnepropetrovskom
oblsovrufe.

(Industrial safety)

BIRYUKOV, P.

Experts exchange their experiences. Prof. -tekhn. obr. 13 no.8:
14-15 Ag '56. (MLRA 9:10)

1. Direktor stroitel'noy shkoly No. 19, Leningrad.
(Building trades--Study and teaching)

BIRYUKOV, P. (Dnepropetrovsk); NAYKIN, V. (Dnepropetrovsk); KAS'YANOV,
I. (Dnepropetrovsk)

Deivce for the unloading of containers. Sov. torg. 35 no.5:
57-58 My '62. (MIRA 15:5)

(Loading and unloading)

BIRYUKOV, P., inzh.; DOTLIBOV, D., inzh.; EPSHTEYN, V., inzh.

Reinforced concrete three-dimensional bathrooms. Zhil. stroi.
no.12:17-18 '61. (MIRA 15:2)

(Bathrooms)

(Dnepropetrovsk Province--Precast concrete construction)

BIRYUKOV, P., insh.; DOTLIBOV, A., insh.; EPSHTEYN, V., insh.

Mass production of reinforced concrete bathrooms. Zhil. stroi.
no.12:21-22 '62. (MIRA 16:1)

(Dnepropetrovsk—Precast concrete) (Bathrooms)

GRINVAL'D, G.; POPOV, V., LIPATKIN, Ye.; KIM, L.; ZYABLOV, V.; BIRYUKOV, P.

Transportation of large elements. Stroitel' 8 no.5:26-27 My '62.
(MIRA 15:7)

(Precast concrete—Transportation)

BIRYUKOV, P.; GAYDASH, G.

The IaSK-1 boring unit. Prom. stroi. 1 inzh. soor. 4 no.1:53 Ja-F '63.
(MIRA 16:3)

(Boring machinery)

BIRYUKOV, P.F., Inzh.

New loading and unloading device. Mekh. stroi. 17 no.12:11 D '60.
(MIRA 13:12)

(Loading and unloading)

BIRYUKOV, Pavel Fedorovich; DOTLIBOV, Arkadiy Mikhaylovich; ROMANETS, Tat'yana Yaropolkovna; EPSHTEYN, Vladimir L'evich; VISHNEVYY, V., red.; YEREMINA, I., tekhn.red.

[Freestanding reinforced-concrete bathrooms; their manufacture and use] Nenesushchie shelesobetonnye prostranstvennye sanitarno-tekhnicheskie kabiny; opyt isgotovleniia i primeneniia. Kiev, Gosstroizdat, 1963. 37 p. (MIRA 16:6)
(Bathrooms)

a L 9787-66

ACC NR: AP5028476

SOURCE CODE: UR/0286/65/000/020/0058/0058

AUTHORS: Roman, Yu. R.; Biryukov, P. F.; Troshkin, V. I.

ORG: none

TITLE: Loading and unloading rig for trucks. Class 35, No. 175628

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 58

TOPIC TAGS: material handling, hydraulic device, pump

ABSTRACT: This Author Certificate presents a loading-unloading rig for trucks as per Author Certificate No. 127796. To perform the loading-unloading operations, a hydraulic roller-type winch located under the truck platform is used (see Fig. 1). This winch is powered by a hydraulic system with a pump driven by the engine

Card 1/2

UDC: 629.114.4:621.869.462-875.56

L 9787-66

ACC NR: AP5028476

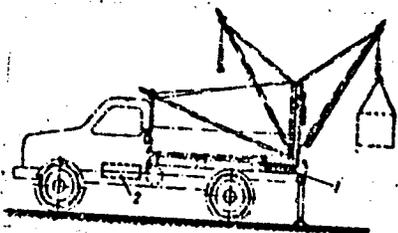


Fig. 1. 1 - Hydraulic roller winch; 2 - hydraulic system.

drive shaft. Orig. art. has: 1 figure.

SUB CODE: 13/

SUBM DATE: 23Aug62

BC
Card 2/2

BIRYUKOV, Petr Timofeyevich; MEL'NIKOVA, M.S., red. izd-va; VDOVINA,
V.M., tekhn. red.

[Practices of the manufacture of wood particle boards] Opyt
proizvodstva drevesno-struzhechnykh plit. Moskva, Goslesbum-
izdat, 1961. 87 p. (MIRA 15:3)

(Hardboard)

BIRYUKOV, R.

OVINOV, M.; BIRIUKOV, R.

Analysis of production technology and organization at the Molotov mine].
Analiz tekhnologii i organizatsii proizvodstva na shakhte imeni Moloto-
va. Kemerovo, Kn.isd-vo, 1954. 45 p. (MIRA 8:3D)

BIRYUKOV, R.A. gornyy inzhener

Using the filling system in the Kuznetsk Basin mines. Ugol'
30 no.5:6-11 My '55. (MIRA 8:6)

1. Nachal'nik tekhnicheskogo upravleniya Kombinata Kuzbassugol'.
(Kuznetsk Basin--Coal mines and mining)

BATALIN, S.A.; BIRYUKOV, R.A.; KOLOSOV, V.A.

~~SECRET~~
Forced blowing and suction method in the ventilation of
mines in the Prokopyevsk-Kiselevsk area of the Kuznetsk
Basin. Ugol' 35 no.3:54-58 Mr '60.
(MIRA 13:6)

1. Tomskiy politekhnicheskiy institut (for Batalin).
2. Kemerovskiy gornyy institut (for Biryukov).
3. Kuzbassgiproskht (for Kolosov).
(Kuznetsk Basin--Mine ventilation)

BIRYUKOV, R.A., prof. (g.Kemerovo); BERDYUGIN, V.A., gornyy inzh. (g.Kemerovo)

"Efficient underground mining systems for working thick coal seams"
by N.I.Lindenau. Reviewed by R.A.Birinkov, V.A.Berdingin. Ugol'
35 no.9:64 S '60. (MIRA 13:10)
(Coal mines and mining) (Lindenau, N.I.)

GRAFOV, L.Ye., *gornyy inzh.*; GORBUSHIN, V.I., V.I.; ZARANKIN, N.Ye.;
DUDNIK, G.N.; BARONSKIY, I.V.; KOSTYUKOVSKIY, V.Ya. [deceased];
LINDENAU, N.I.; BIRYUKOV, R.A.; LISKOVETS, A.R.; MURAV'YEV,
V.P.; FESUN, V.A.; BERDYUGIN, V.A.; BEREZNYAK, M.M.; VASIL'YEV,
Ye.I.; KOLLODIY, K.K.; IL'CHENKO, D.F.; YALEVSKIY, D.B.;
GERASIMOV, V.P.; IVANOV, V.V.; GAVRILOV, G.V.; SUROVA, V.A., *red.*
izd-va; OSVAL'D, E.Ya., *red. izd-va*; PROZOROVSKAYA, V.L., *tekh.*
red.

[Development and improvement in the technology of coal production]
Razvitie i sovershenstvovanie tekhniki dobychi uglia. Moskva, Gos-
gortekhzdat, 1962. 359 p. (MIRA 16:2)

(Kuznets Basin--Coal mines and mining)

DMITRIYEV, S.I.; IVANOVA, K.A.; LINDENAU, N.I.; NOVIKOV, V.M.;
BIRYUKOV, R.A., prof., retsenezent; VOLKOVA, V.A., red.
izd-va; BOLDYREVA, Z.A., tekhn. red.

[Economic efficiency of mining systems] Ekonomicheskaya
effektivnost' sistem razrabotki. Moskva, Gosgortekhnizdat,
1963. 223 p. (MIRA 17:1)

KAPUSTIN, Nikolay Georgiyevich; KVON, Sergey Syn-Guvich; BERLIN, A.Ye., inzh., retsenzent; KOVSH, B.I., inzh., retsenzent; BRODSKIY, I.A., inzh, retsenzent; CHECHKOV, L.V., ved. red.; BIRYUKOV, R.A., prof., otv. red.

[Principles of designing coal mines] Osnovy proektirovaniia ugol'nykh shakht. Moskva, Nedra, 1964. 267 p.
(MIRA 18:2)

1. Vsesoyuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlennosti (for Berlin, Kovsh, Brodskiy).

BIRYUKOV, R.N.

USSR/Medicine - Scientific session

FD-2191

Card 1/1

Pub 102-11/15

Author : Deryabina, V. L., Aleksandrov, O. A., and Biryukov, R. N.

Title : Scientific session of the Institute for Organization of Public Health and History of Medicine imeni N. A. Semashko, Academy of Medical Sciences USSR

Periodical : Sov. zdrav., 3, 53-57, May-June 1955

Abstract : Second scientific session of the Institute was held on January 27-February 5, 1955. Minister of Health USSR, M. D. Kovrigina, Minister of Health RSFSR, S. V. Kurashov, and other high ranking personnel of various ministries and Academy of Medical Sciences USSR took part in the proceedings. Minister of Health of the Rumanian People's Republic, Marinescu, was also present. Proceedings indicated that great advance was made in USSR on scientific-theoretical front of health service organization as well as in medical statistics and history of medicine. It was pointed out that application of results of scientific research are numerous. It was also stated that struggle against excessive paper work and bureaucracy must go on.

Institution : —

Submitted : — (See also: BIRYUKOVA, R.N.)

BIRYUKOV, S.; KUR'YAKOV, V.; SUSLOVA, Z.; ALEKSEYEV, A.; PANTELEYEV,
A.; KARAVAYEV, P.; BELONOGOV, A.

Improve State Bank credit-payment relations with collective farms. Den.1 kred. 18 no.2:55-60 F '60. (MIRA 13:1)

1. Starshiy kreditnyy inspektor Shurminskogo otdeleniya Gosbanka Kirovskoy oblasti (for Biryukov). 2. Nachal'nik otdela kreditovaniya kolkhozov Chitinskoy kontory Gosbanka (for Kur'yakov). 3. Kreditnyy inspektor Kotel'nicheskogo otdeleniya Gosbanka Korovskoy oblasti (for Suslova). 4. Upravlyayushchiy Selivanovskim otdeleniyem Gosbanka Vladimirskey oblasti (for Alekseyev). 5. Starshiy revisor Zapadno-Kazakhstanskoy kontory Gosbanka (for Panteleyev). 6. Glavnyy bukhgalter Komi-Permyatskoy okruzhnoy kontory Gosbanka (for Karavayev). 7. Upravlyayushchiy Perechinskim otdeleniyem Gosbanka Zakarpatskoy oblasti (for Belonogov).

(Agricultural credit)

BIRYUKOV, S.M.

Architecture; Volga-Don Canal

Architecture of the Volga-Don water way structures
Izvestiya. stroy. tekhn. 9 no. 6, March 1952

BIRYUKOV, S. M.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BREZIN, V.D.; BIRYUKOV, I.K.;
 BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVOY, G.A.; BULEV, M.Z.; BURAKOV,
 N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
 GALAKTIONOV, V.D., kand. tekhn. nauk; GEMKIN, Ye.M.; GIL'DENBLAT,
 Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLKBOV, P.S.; GODES, E.G.;
 GOBRACHEV, V.N.; GRZHIB, B.V.; GEMKULOV, L.F., kand. s.-kh. nauk;
 GRODZHENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
 Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK,
 A.P.; ZENKOVICH, D.K.; ZIMAROV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
 KARANOV, I.F.; KNYAZEV, S.N.; KOLMGAYEV, N.M.; KOMARVSKIY, V.T.;
 KOSINCO, V.P.; KORNISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
 KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
 LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKOVICH, K.F.; MEL'NICHENKO,
 K.I.; MENDEL'EVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
 MUSIYVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
 OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
 G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.;
 ROZANOV, M.P., kand. biol. nauk; ROCHGOV, A.G.; RUBINCHIK, A.M.;
 RYBCHENSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
 SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
 Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,
 Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
 TSISHENSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHOV, A.A.; CHUSOVITIN,
 N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
 I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,
 (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BAJASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

[Volga-Don; technical account of the construction of the V.I. Lenin
Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center,
and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
lianskogo gidrousla i orositel'nykh sooruzhenii, 1949-1952; v piati
tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural
descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk.
Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of con-
struction. Specialized operations in hydraulic engineering] Orga-
nizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.I.... (continued) Card 4.

Glav. red. S. IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.

(MIRA 11:9)

1. Russia (1923- . U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-kor-
respondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy
chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin,
Razin).

(Volga Don Canal--Hydraulic engineering)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410005-4

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410005-4"

ATG034106

AUTHOR: Biryukov, V.

SOURCE CODE: UR/0089/66/021/004/0313/0315

ORG: none

TITLE: Tenth anniversary of the Joint Institute of Nuclear Research (Jubilee session of the Science Council in Dubna)

SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 313-315

TOPIC TAGS: nuclear physics conference, nuclear physics research facility, physics laboratory

ABSTRACT: This is a summary of the Jubilee 20th session of the Science Council of the Joint Institute of Nuclear Research, held on 31 May - 4 June 1966. The introductory address was made by the director of the Institute, Academician N. N. Bogolyubov, who reviewed the work of the various laboratories in the institute: the laboratory for nuclear problems (headed by Corresponding Member AN SSSR V. P. Dzhelepov), the laboratory of high energies (headed by the late Academician V. I. Veksler), the laboratory for theoretical physics (headed by Corresponding Member AN SSSR D. I. Blokhintsev), the laboratory of nuclear reactions (headed by Corresponding Member AN SSSR G. N. Flerov), and the laboratory of neutron physics (headed by Corresponding Member AN SSSR I. M. Frank). The highlights of the accomplishment of the different laboratories and some of the international aspects of the operation of the Joint Institute of Nuclear Research were discussed. In addition, a paper by a group of

Card 1/2

BIRYUKOV, V.
BIRYUKOV, V.; YEVSTIFEYEV, A. (Tashkent).

With cotton growers of Uzbekistan. Voen. znan. 33 no.12:9 D '57.
(Uzbekistan--Military education) (MIRA 11:1)

S/089/61/011/003/011/013
B102/B138

AUTHOR: Biryukov, V.

TITLE: Tenth meeting of the Scientific Council of the Joint Institute of Nuclear Research

PERIODICAL: Atomnaya energiya, v. 11, no. 3, 1961, 261

TEXT: The tenth meeting of the Ucheny sovet Ob'yedinennogo instituta yadernykh issledovaniy (Scientific Council of the Joint Institute of Nuclear Research) was held at Dubna on May 24-27. The meeting was attended by the following physicists from the Institute's member countries: L. Janoshi (Hungary), Shch. Tsitseyka (Rumania), V. Votruba (Czechoslovakia), G. Nevodnichanskiy (Poland), A. Konya (Hungary), G. Pose (Eastern Germany), Chang Wen-yü (Chinese People's Republic), M. Danysh (Poland), P. Pilika (Albania), N. Sodnom (Mongolia), and others. The chair was taken by the Director of the Institute, D. I. Blokhintsev, and Vice-Directors G. Barvikh and E. Dzhakov. The meeting was further attended by the laboratory directors V. I. Veksler, V. P. Dzhelepov, I. M. Frank, and G. N. Flerov. I. M. Frank, Director of the Laboratoriya neytronnoy

Card 1/3

Tenth meeting of the Scientific...

S/089/61/011/003/011/013
B102/B138

fiziki (Laboratory for Neutron Physics), reported on studies carried out on the laboratory's pulsed reactor (cf. Atomnaya energiya, v. 10, no. 5, 1961, 437), on neutron spectrometry, and described slow-neutron scattering experiments. Studies are to be extended, especially to the fields of the physics of solids, semiconductors, and nuclear physics. V. P. Alfimenkova, of the Laboratory for Neutron Physics, described the study of Mössbauer effect in Zn^{67} being conducted by a group of physicists. G. N. Flerov, Head of the Laboratoriya yadernykh reaktsiy (Laboratory for Nuclear Reactions), gave a survey of the synthesis of transuranic elements by heavy-ion bombardment. V. S. Neganov, of the Laboratoriya yadernykh problem (Laboratory for Nuclear Problems), reported on the construction of a refrigerating machine (0.01°K) in connection with tests for producing a polarized hydrogen target. M. I. Podgoretskiy, of the Laboratoriya vysokikh energiy (Laboratory for High Energies), reported on inelastic 7-Bev (πN) and 9-Bev (pN) interaction experiments on the proton synchrotron, using photoemulsions and bubble chambers. The very accurate results allowed the theoretical workers of the OIYaI and other institutes to draw interesting conclusions as to πN and NN interactions and nucleonic structure. A model of an annular proton synchrotron was also put into operation at

Card 2/3

Tenth meeting of the Scientific...

S/089/61/011/003/011/013
B102/B138

this institute. E. Myas reported on experiments conducted with it. Two lectures were delivered by theoretical workers of the institute: "Neutrons and astrophysics" (Ya. A. Smorodinskiy) and "Problems of experimentally verifying the universal character of weak interaction" (S. S. Gershteyn). The jury of the institute decided to award the prizes for the best research work done at the OIYaI in 1961 as follows: (1) for the discovery of the Σ^- hyperon and for studies of the properties of strange particles; (2) for work relative to the development and production of a cyclotron with spatially varied magnetic field strength; (3) for work concerning weak interaction at high energies. A number of lectures were also delivered at the meeting of the Section for Low Energies.

Card 3/3

BIRYUKOV, V.

Papers read at the 12th session of the Scientific Council
of the United Institute of Nuclear Research. Atom. energ.
13 no.5:494-500. N '62. (MIRA 15:11)
(Nuclear research)

BIRYUKOV, V.

Supernumerary sections form the support of committees. Za rul.
21 no.3:2 Mr '63. (MIRA 16:4)

1. Predsedatel' oblastnogo komiteta Dobrovol'nogo obshchestva
sodeystviya armii, aviatsii i flotu, Vitebsk.

(Motor vehicles—Societies, etc.)

L 10/05-63

ACCESSION NR: AP3001188

EPF(n)-2/EWT(m)/BDS--AFFTC/ASD/AFWL/SSD--Pu-1--ES

S/0089/63/014/005/0502/0505

AUTHOR: Biryukov, V.; Lebedev, R.

65
63

TITLE: Thirteenth session of the Uchenyy Sovet Ob"yedinennogo instituta yadernykh issledovaniy (Scientific Council of the Joint Institute of Atomic Research) [Held at Dubna, November, 1962]

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 502-505

TOPIC TAGS: conference

ABSTRACT: Academician V. I. Veksler reported on the work of the Laboratoriya vysokikh energiy (High-Energy Laboratory) and on the construction of large physical equipment, such as a large bubble chamber and pure beam channels. Prof. V. P. Dzhelepov described in detail the discovery of Pi-meson Beta decay and measurement of its probability and also reported on experimental investigations of mesoatomic and mesomolecular processes and of the capture of Mu mesons by He sup 3 nuclei. He indicated the importance of experimental and theoretical work performed by B. M. Pontecorvo in the field of weak

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L 10405-63

ACCESSION NR: AP3001188

2
interactions and neutrino physics. G. N. Flerov spoke on the synthesis of transuranium elements and the development of rapid methods for the separation of short-lived transuranium elements. During the session, a meeting of the Sektsiya soveta po fizike nizkikh energy (Low-Energy-Physics Section) was held. It planned future conferences on reactor physics and reactor engineering, on spectroscopy of neutron-deficient isotopes and the theory of the nucleus, and on inelastic scattering of slow neutrons in crystals and liquids.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

ja/ll
Card 2/2

ACCESSION NR: AD4036537

b/0089/64/016/005/0459/0462

AUTHOR: Plumkov, V.; Lebedev, R.

INSTITUTION: Scientific Center of the Academy of Sciences of the USSR

DATE: 1978, no. 1, p. 1-4, 10

TOPIC TAGS: research, nuclear theory, nuclear science, neutron

CLASSIFICATION: unclassified

L 6990-65

ACCESSION NR: A2401/517

BIRYUKOV, V.; RYABOV, Yu.

Eighteenth Session of the Scientific Council of the Joint
Institute for Nuclear Research. Atom. energ. 19 no.4:404-
406 0 '65. (MIRA 18:11)

BIRYUKOV, V.A., otv.red.; VOL'FSON, I.G., tekhn.red.

[Ventilators] Ventilatory. Moskva, 1957. 38 p. (MIRA 12:3)

1. Russia (1917- R.S.F.S.R.) Ministerstvo promyshlennosti
stroitel'nykh materialov. GLAVSANTEKHPROM i trest SANTEKHPRIBOR.
(Fans, Mechanical)

SOV/106-58-10-8/13

AUTHOR: Biryukov, V.A.

TITLE: Distortions of tone-telegraphy Signals due to Parasitic Modulation of the Carrier Currents in High-frequency Telephony Apparatus (Iskazheniya signalov tonal'nogo telegrafa pri parazitnoy modulyatsii nesushchikh tokov apparatury vsh telefonirovaniya)

PERIODICAL: Elektrosvyaz', 1958, Nr 10, pp 54 - 59 (USSR)

ABSTRACT: Cases of unsatisfactory working of tone telegraphy along a high-frequency telephony channel occur in practice even when the channel satisfies the norms with regard to noise and also with regard to frequency and amplitude characteristics. These cases are the result of interference from parasitic modulation. Parasitic modulation of carrier currents arises due to interference from the circuits supplying the oscillator equipment. Parasitic modulation can arise both in the fundamental-frequency current amplifier and in the preceding elements of the oscillator equipment. Parasitic modulation of the fundamental produces pulse-time modulation in the harmonic generator (Ref 1). If the index of the parasitic phase modulation of the fundamental current at the input to the harmonic

Card 1/4

SOV/106-58-10-8/13

Distortions of Tone-telegraphy Signals due to Parasitic Modulation of the Carrier Currents in High-frequency Telephony Apparatus

generator is $M_{\phi 0}$, then the n^{th} harmonic at the output of the generator will have a parasitic modulation index of $M_{\phi n} = nM_{\phi 0}$. The products of parasitic modulation which lie in the pass-band of the filter are passed together with the carrier current to the frequency converter. In general, after the phase-modulated carrier current has passed through a filter with asymmetrical characteristics a compound modulation having amplitude and phase (quadrature) components will occur. When currents of parasitic modulation with frequencies of the form $\omega_n \pm \Omega$ are applied together with the carrier frequency ω_n to the converter, then products with frequencies of the form $\omega_n \pm \alpha \pm \Omega$ (α - signal frequency, Ω - frequency of the parasitic modulation) are formed. The difference between the signal level and the level of any of the parasitic products at the converter output can be calculated by the formula $\Delta p = 0.7 - \log M_{\phi n} \text{ nep.}$, where $M_{\phi n}$ is the index of the phase modulation of the carrier current.

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SOV/106-58-10-8/13

Distortions of Tone-telegraphy Signals due to Parasitic Modulation
of the Carrier Currents in High-frequency Telephony Apparatus

Parasitic modulation products with frequencies of the form $\omega \pm \Omega$, which fall in the side-band used, cause interference in the telephone channels. If the parasitic modulation frequency Ω is small, then these products lie in the frequency band of the same channel. With greater values of the frequency Ω , the parasitic products arising from signals in a given telephone channel fall in the frequency band of adjacent channels. This leads to mutual action between telephony channels. The spectra of parasitic modulation of telegraph signals at the output of a h f telephone channel are shown in Fig 1. If a sinusoidal signal $U_{\text{BX}} = \sin \omega t$ is applied to the input of a h f telephone channel, one of the carrier oscillations of which suffers parasitic modulation described by the expression

$$u_{\text{H}} = U_{\text{mH}} \sin (\omega t + M_{\text{g}} \sin \Omega t) \quad (1)$$

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then, neglecting the distortions in the transmission path, the signal at the output of the channel can be represented in the following form

SOV/106-58-10-8/13

Distortions of Tone-telegraphy Signals due to Parasitic Modulation
of the Carrier Currents in High-frequency Telephony Apparatus

$$u_{\text{emf}} = \sin(\omega t + M_{\text{emf}} \sin \Omega t) \quad (2)$$

To investigate the effect of distortions due to parasitic oscillations on the working of AM tone telegraphy the effect of application of an emf of the form (2) to the input of the receiver of a TT channel is considered. Then the interaction between the channels and the methods of reducing this interaction are discussed. Candidate of Technical Sciences V.I. Kirsanov together with the authors measured distortions occurring in both frequency and amplitude modulated systems. There are 2 figures and 2 references (both Soviet)
SUBMITTED: June 9, 1958

Card 4/4

BIRYUKOV, V.A., kand. tekhn. nauk; POLYAK, M.U., kand. tekhn. nauk

New multiplex apparatus in rural telephone systems. Vest. sviazi
24 no.6:18-22. Ja '64. (MIRA 17:11)

BIRYUKOV, V.A., otv.red.; VOL'PSON, I.G., tekhn.red.

[Hardware] Skobiane isdeliia. Moskva, M-vo promyshl. stroit.
materialov RSPSR, 1957. 39 p. (MIRA 13:1)

1. SANTEKHPRIBOR, trust.
(Hardware)

BIRYUKOV, V.A.; RAKHILEVICH, R.Z.

Pneumatic wedge block. Trudy TSIMNefti no.1:39-47 '54. (MERA 10:9)
(Oil well drilling--Equipment and supplies) (Pneumatic machinery)

AID P - 1340

Subject : USSR/Engineering

Card 1/1 Pub. 78 - 3/30

Author : Biryukov, V. A. and Rakhmievich, R. Z.

Title : Experimental use of a pneumatic wedge clamp in the oil field

Periodical : Neft. khoz., v.32, #12, 9-13, D 1954

Abstract : A pneumatic wedge clamp of the PKZ type is outlined and its efficiency during drilling operation is analysed. Results are presented in four tables. One Russian reference is given in footnote. (1954)

Institution: None

Submitted : No date

BIRYUKOV, V. A.

Veneers and Veneering

High-speed gluing and veneering with dielectric heat. Der. i lesokhim. provm.
1, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

BIRYUKOV, V.A.

Use of high-frequency currents in kiln drying lumber. [Issdania]
LONITOMASH no. 30:441-448 '52. (MLRA 8:1)
(Lumber--Drying) (Dielectric heating)

BIRYUKOV, V.A., master.

Reconstruction of the cooling system of a 1d 62m (DIP-200) screw-cutting
lathe. Energetik 1 no.3:16-17 Ag '53. (MLRA 6:8)
(Screw-cutting machines)

BIRYUKOV, V.A., kandidat tekhnicheskikh nauk.

Lumber drying systems using dielectric and convection heating. Der.i lesokhim.
prom. 2 no.10:3-7 0 '53. (MLRA 6:9)

1. Tsentral'naya nauchno-issledovatel'skaya laboratoriya tresta Sevzaples.
(Lumber--Drying)

BIRYUKOV, V.A., kandidat tekhnicheskikh nauk; CHERNYSHEV, A.I., inzhener.

Heat treatment of cutting tools with high frequency current. Der. 1
lesokhim. prom. 3 no.2:3-6 F '54. (MLRA 7:1)

1. TSNIL treata Sevzaples. (Cutting tools) (Metals--Heat treatment)

BIRYUKOV, V. A.

AID P - 1166

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 19/31
Author : Biryukov, V. A., Kand. of Tech. Sci.
Title : ~~Improving the performance of drying apparatus for a composite drying of lumber~~
Periodical : Energetik, 11, 29-32, N 1954
Abstract : The author describes speed drying of lumber with methods using high frequency currents. These can be improved by combining convection heating with them. He describes experiments made by the Central Scientific Research Laboratory (TsNIL) of the trust "Sevzaples". The results were very satisfactory. One photograph and 1 drawing, 1 numerical example.
Institution : None
Submitted : No date

BIRYUKOV, V.A.

~~Using high-frequency heating for gluing wood.~~ [Izd.] LONITOMASH
no.33:290-298 '54. (MLRA 8:2)
(Dielectric heating)

BIRYUKOV, V. A.

Utilization of HF Heating for Gluing of Wooden Parts. Leka Promishlenost
(Light Industry), #9:34:Sep. 1955

BIRYUKOV, Y. A., kandidat tekhnicheskikh nauk, dotsent; MININ, A., redaktor;
TRUKHANOVA, A., tekhnicheskiy redaktor

[Modern methods of drying wood] Sovremennye metody sushki drevesiny.
Minsk, Gos. izd-vo BSSR, 1956. 263 p. (MIRA 10:2)
(Lumber--Drying)

BIRYUKOV, V.A., kandidat tekhnicheskikh nauk.

Drying and equalizing the moisture in plywood panels. Der.prom.
6 no.1:11-12 Ja '57. (MLRA 10:2)

1. Belorusskiy lesotekhnicheskiy institut im.S.M.Kirova.
(Plywood) (Gluing)

BIRYUKOV, V.A., kand. tekhn. nauk

Determining the performance coefficient of high-frequency electric
dryers. Sbor. nauch. trud. BLTI no. 10:290-295 '57. (MIRA 11:12)
(Lumber--Drying)

BATIN, N.A., dots., kand. tekhn. nauk; BIRYUKOV, Y.A., dots., kand. tekhn. nauk; MANKVICH, L.A., dots., kand. tekhn. nauk; GOLUBTSOVA, P., red.; KALNCHITS, G., tekhn. red.

[Handbook of woodworking] Spravochnik po derevoobrabotke. Minsk, Gos. izd-vo BSSR, Red. nauchno-tekhn. lit-ry, 1958. 390 p.
(Sawmills) (Woodwork) (MIRA 11:10)

BIRYUKOV, V.A., kand. tekhn. nauk

Regularity of drying of sawed materials in compartment dryers.
Dor. prom. 7 no. 6:4-6 Je '58. (MIRA 11:8)

1. Belorusskiy lesotekhnicheskiy institut im. S.M.Kirova.
(Lumber--Drying)

BIRYUKOV, Vadim Aleksandrovich, káñd. tekhn. nauk, dotsent; SERGOVSKIY, P.S.,
red.; LEBEDEVA, I.B., red. ísd-va; VDOVINA, V.M., tekhn. red.

[Dielectric heating and drying of wood] Protsessy dielektricheskogo
nagreva i sushki drevesiny. Moskva, Goslesbunimdat, 1961. 147 p.
(Lumber—Drying) (Dielectric heating) (MIRA 1418)

BIRYUKOV, V.A., kand.tekhn.nauk

Machines for continuous gluing of shields. Der.prom. 11
no.10:9-11 0 '62. (MIRA 15:9)

1. Belorusskiy tekhnologicheskiy institut im. S.M.Kirova.
(Gluing) (Dielectric heating)

BIRYUKOV, V.A., kand. tekhn. nauk

Semiautomatic machine for gluing crosscut ends of small
lumber. Der. prom. 12 no.8:12-14 Ag '63. (MIRA 16:11)

1. Belorusskiy tekhnologicheskij institut im. S.M. Kirova.

BIRYUKOV, V. A.

SUBJECT USSR / PHYSICS CARD 1 / 8 PA - 1453
AUTHOR BIRJUKOV, V. A., GOLOVIN, B. M., LAPIDUS, L. I.
TITLE The All-Soviet Conference on the Physics of Particles with High Energies.
PERIODICAL Atomnaja Energija, 1, fasc. 4, 158-165 (1956)
Issued: 10 / 1956 reviewed: 10 / 1956

This conference was held by the Department for Physical and Mathematical Sciences of the Academy of Science in the USSR at Moscow with the participation of more than 1000 engineers and physicists of many laboratories and institutes of the Soviet Union and about 60 foreign scientists. The conference began its work on May 14th with a plenary session. On this occasion M. G. MEŠČERJAKOV stressed the necessity of the cooperation of scientists of various countries in working out the most important problems of the physics of elementary particles.

The first lecture was delivered by A. L. MING on the construction, the most important data, and the experience made with the operation of the synchrocyclotron of the Institute for Nuclear Problems which had recently been transferred to the United Institute for Nuclear Research. This accelerator, the magnetic poles of which had a diameter of 5 m, was put into operation in 1949 after a short period of construction. It was used for the acceleration of deuterons and α -particles, and in 1950 500 MeV protons were obtained. By reconstruction (1953) the diameter of the magnetic poles was increased to 6 m and proton energy to 680 m.

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V.I. VEKSLER gave a report on the synchrotron for 10-BeV-protons of the electrophysical Institute. Also this apparatus has been transferred to the United Institute, being destined for the investigation of the nature of nuclear forces, the properties of mesons, hyperons, antiprotons, etc.

V.V.VLADIMIRSKIJ reported on projected proton synchrotrons for 6-7 BeV and 50-60 BeV with hard focussing. Such devices are not yet in operation but are already under construction, above all in the USSR, in the USA, and in Switzerland. The meeting was closed after a lecture delivered by J. (or G. ?)

MARSHALL (USA) on the project of building a proton synchrotron for 15 BeV.

In the course of the following days the conference carried out its work in 3 sections: 1.) Elementary particles and their interactions. 2.) Accelerators for elementary particles. 3.) Theoretical work concerning the physics of particles of high energy.

The first meeting of the department "Accelerators" was devoted to the problem of accelerators of the cyclotron type. At first V.P.DMITRIEVSKIJ and V.I.DANILOV delivered a report on the work performed by the Institute for Nuclear Problems in connection with the releasing of the bundle from the 6 m - synchrocyclotron and on the increase of the density of the released proton bundle. CH. TIREN (Sweden) delivered a report on a subterranean synchrocyclotron for 185 MeV. I.CH.NEVAŽSKIJ dealt with some special features of the high frequency system of the six meter phasotron, and Prof. BAKER spoke about the system of frequency modulation of the Swiss 600 MeV synchrocyclotron.

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Other lectures dealt with individual lectures delivered on the theory of the motion of particles in accelerators. In the course of the two following meetings of the department for accelerators, M.S.RABINOVIĆ, E.G.KOMAR, S.M.RUBČINSKIJ, I.F.MALYŠEV, N.A.MONOSZON and others reported on the physical bases of the 10 BeV synchrocyclotron and on its individual components.

Many interesting lectures were delivered in the course of meetings concerning electron accelerators. V.D.RUSANOV, JU.N.LOBANOV and M.SEIDL (the latter from Czechoslovakia) spoke about experimental investigations of the capture of electrons on the occasion of a betatron-like operation of the accelerators, and, besides, several problems connected with the motion of electrons in the accelerators were dealt with.

In a special meeting the special features and the economic coefficients of linear accelerators were dealt with by Soviet and foreign specialists. Furthermore, also the accelerators with hard focussing were dealt with in the course of this session. Prof. REGENSTREIF (Geneva) gave a report on the 25-BeV synchrotron under construction in Geneva.

Special attention was attracted by lectures on new methods of acceleration. M.OLIPHANT (Australia) gave a report on the construction of the first proton synchrotron for 10 BeV, in which the strong magnetic fields (of up to 80.000 oersted) are generated without the help of iron nuclei. G.I.BUDKER lectured on the generation of large magnetic fields and on the original idea of producing a closed stabilized electron bundle. A.A.KOLOMENSKIJ spoke about the

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construction of annular accelerators with constant circulation frequency of the particles.

The last session of this department was devoted to the study of various experimental methods.

Department of "Elementary Particles and their Interaction". The first session dealt with problems connected with the production of pions by nucleons. Reports were delivered by M.G.MEŠČERJAKOV et al. on the study of the spectra of pions, nucleons and deuterons created on the occasion of (pp)-collisions and of the bombardment of Be-nuclei with protons, L.RIDDIFORD (England) dealt with the (pp)-interaction at 650 MeV, JU.D.BAJUKOV et al. on the production of π^0 -mesons on the occasion of collisions of protons and neutrons of high energy with protons, deuterons, and with nuclei of different elements, P.MARSHAK (USA) on some results obtained by tests concerning the production of pions on a nucleus with the isotopic spin zero, (Li^6), L.SMITH (USA) on the interaction between protons and protons within the energy range 1 to 3 BeV, S.Z.BELEN'KIJ on the interaction between mesons and nucleons, E. SEGRÉ on the interaction between mesons and nucleons, and on the discovery of the antiproton. (According to I.JA.POMERANČUK (who spoke in the discussion), a system consisting only of protons is produced on the occasion of the annihilation of antiprotons on the nucleons). JA.A.SMORODINSKIJ spoke about the scattering of nucleons by nucleons (survey of experimental data), O.CHAMBERLAIN (USA) on the scattering of polarized protons, and V.P.DŽELEPOV on (n,p) and (n,n) scattering at a neutron energy of from 580 to 590 MeV,

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L.I.LAPIDUS on new possibilities of the phase analysis of the data of (n,p)-scattering, P.MARSHAK (USA), E.KLEMENTEL (?) (Italy) and L.RIDDIFORD (England) on the elastic scattering of protons and neutrons by neutrons, various authors dealt with the scattering of nucleons, particularly with (p,p) scattering at 660 MeV and from 1 to 3 BeV.

A further session devoted its attention to the interaction of pions with nucleons and nuclei. Further problems were dealt with by the following authors: N.A.MITIN and I.V.SOKOLOVA: the scattering of π^+ -mesons by nucleons and the phase analysis of this process, E.KLEMENTEL (?) (Italy): the same problem, P.MARSHAK: the scattering of pions with low energy by protons, K.BRJKNER (BRUECKNER?): the total cross sections of the interaction of pions with nucleons at high energies, F.M.SULJAEV, N.I.PETROV and A.E.IGNATENKO: the interaction of π^- -mesons (330 MeV) with an He^4 -nucleus, V.V.KRIVICKIJ: the production of π^- -mesons in carbon by 308 MeV- π^- -mesons, G.D.STOLETOV: polarization on the occasion of the scattering of 660-MeV-protons by beryllium nuclei, P.MARSHAK: polarization on the occasion of the scattering of protons by protons, I.I.LEVINTOV: the determination of the ratio of the real parts of the spin-orbit- and of the central potential of the interaction between nucleons with nuclei, N.A. GULIEV: the polarization occurring on the occasion of the scattering of nucleons by nuclei, L.ROSENFELD (England): the possibilities offered by the nuclear scattering of fast particles to the study of nuclear structure, M.Levi: the scattering of 550-MeV electrons by protons and deuterons, V.I.MOSKALEV: